

5.1- Writing Linear Equations in Slope-Intercept Form

If you are given a slope and a point, how do you write the equation of the line?

WRITE THE EQUATION OF THE LINE IN SLOPE-INTERCEPT FORM:1. The slope is $\frac{4}{5}$; the y-intercept is -12

$$y = \frac{4}{5}x + -12$$

2. The slope is -6; the y-intercept is -3

$$y = -\frac{6}{1}x + -3$$

3. The slope is 0; the y-intercept is -4

$$y = 0x + -4$$

$$\boxed{y = -4}$$

4. The slope is undefined; the x-intercept is 8

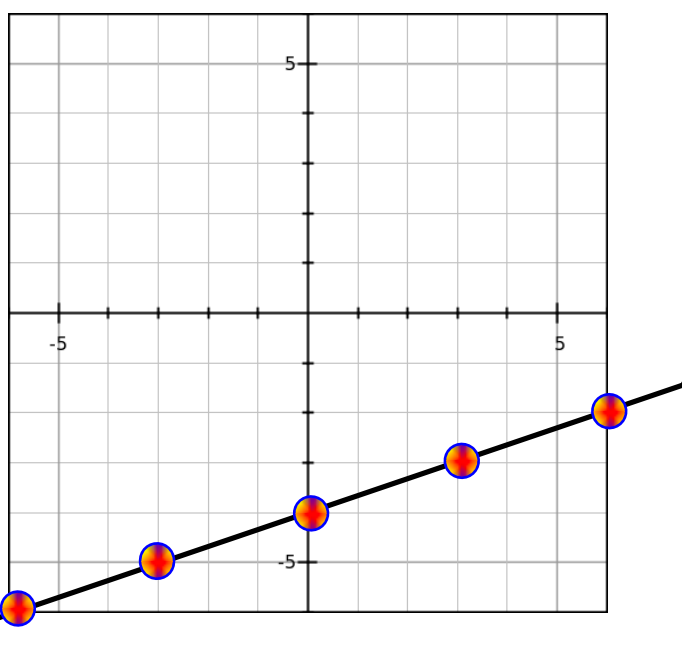
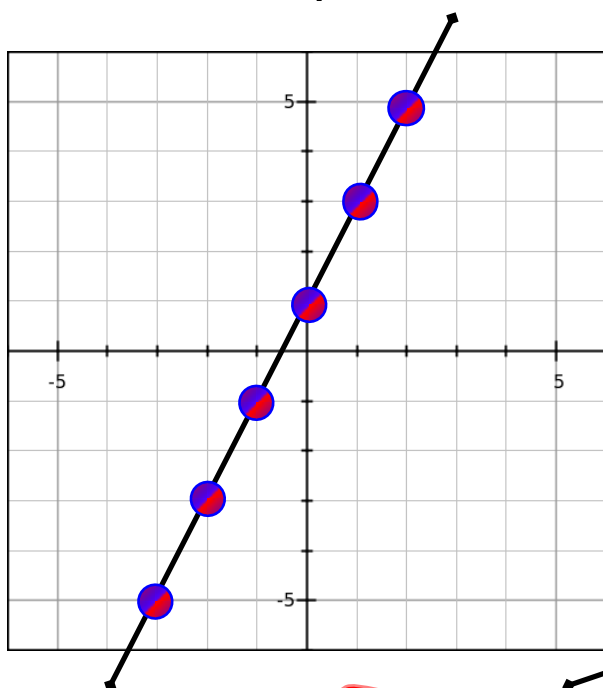
$$\boxed{x = 8}$$

$$y = m8 + b$$

$$y = \frac{0}{0}x + 8$$

$$y = \frac{1}{0}x + 8$$

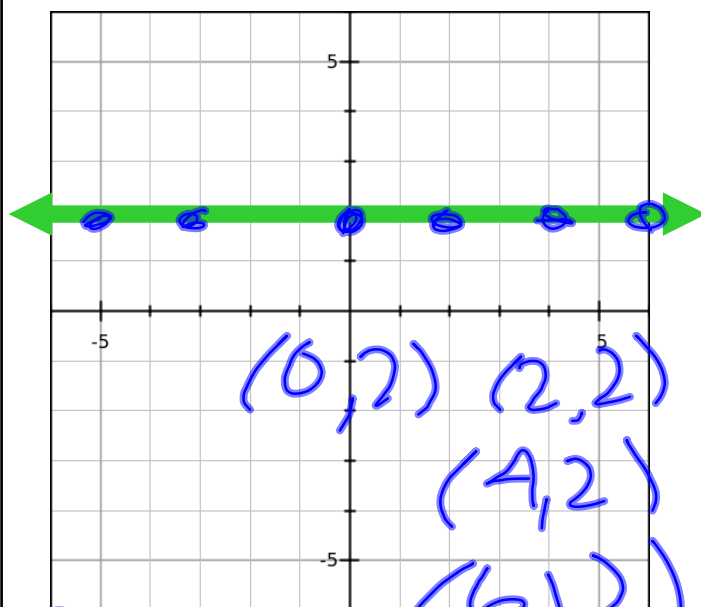
Write the equation of each line:



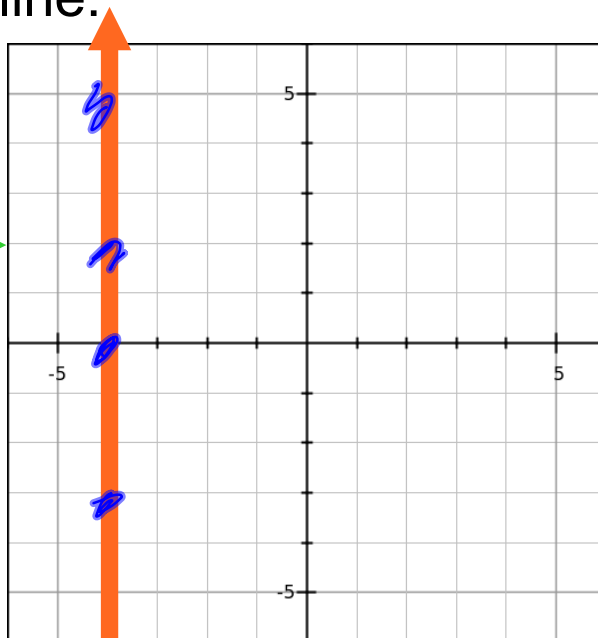
$b = 1$
 $m = 2/1$

$y = \frac{2}{1}x + 1$

Write the equation of each line:

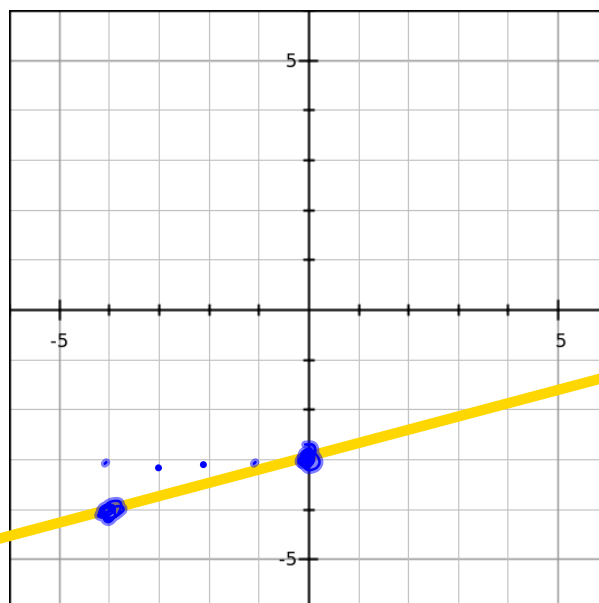
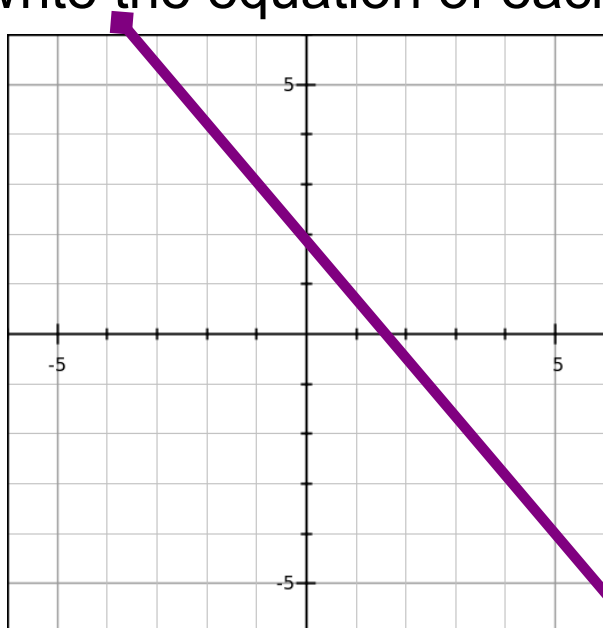


$$y = 2$$



$$x = -4$$

Write the equation of each line:



$$y = \frac{1}{4}x + -3$$

$$m = \frac{1}{4}$$
$$b = -3$$

Look back at your notes.... Do you need to any more details?

IN PARTNERS COMPLETE THE FOLLOW:

EVEN
Do page 276 #12-24 and page #26 - 33

ODD
Page 278 #49 - 57 WRITE EQUATIONS IN
SLOPE-INTERCEPT FORM (.....NOT WHAT THE
DIRECTIONS SAY!)

TICKET OUT THE DOOR:

Complete the form independently. YES, it will be graded.

HOMEWORK:

Watch 1 video and fill out online reflection form...writing the equation of a line given the slope and a point